



Performance Data Sheet

AE4460Z-FZ1C

General Information

Model	AE4460Z-FZ1C	Refrigerant	R-404A
Test Condition	EN12900 ASERCOM	Performance Test Voltage	220V ~ 50HZ
Return Gas	20°C (68°F) RETURN GAS	Motor Type	CSIR

Performance Information

Evap Temp (°C)	Condensing Temperature (°C)				
		30	40	50	60
-15	Btu/h	3170	2670	2150	1650
	Watts (Power)	426	459	493	520
	Amps	3.09	3.19	3.30	3.39
	Lb/h	50.8	48.0	44.7	42.0
-10	Btu/h	3900	3310	2680	2060
	Watts (Power)	458	498	542	581
	Amps	3.19	3.33	3.47	3.61
	Lb/h	62.7	59.9	56.1	52.5
-6.7	Btu/h	4440	3770	3060	2350
	Watts (Power)	477	522	573	620
	Amps	3.25	3.41	3.58	3.77
	Lb/h	71.7	68.8	64.6	60.4
-5	Btu/h	4740	4030	3270	2510
	Watts (Power)	486	533	588	640
	Amps	3.28	3.45	3.64	3.84
	Lb/h	76.7	73.8	69.3	64.8
0	Btu/h	5710	4860	3940	3000
	Watts (Power)	509	565	631	697
	Amps	3.35	3.57	3.81	4.07
	Lb/h	93.3	90.1	85.0	79.3
5	Btu/h	6820	5800	4700	3570
	Watts (Power)	527	592	670	750
	Amps	3.41	3.67	3.97	4.29
	Lb/h	113	109	104	96.6
7.2	Btu/h	7350	6250	5070	3840
	Watts (Power)	532	602	685	772
	Amps	3.43	3.72	4.03	4.39
	Lb/h	123	119	113	105
10	Btu/h	8070	6870	5570	4210
	Watts (Power)	538	613	704	799
	Amps	3.45	3.76	4.11	4.51
	Lb/h	136	132	126	117

15	Btu/h	9490	8070	6540	4930
	Watts (Power)	542	628	732	843
	Amps	3.47	3.83	4.24	4.71
	Lb/h	164	159	151	142

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	7.489378E+03	4.983449E+02	2.864887E+00	7.807474E+01
C2	2.809547E+02	1.706165E+00	5.421675E-04	3.262666E+00
C3	-3.230948E+01	-5.546288E+00	1.182008E-02	1.394454E+00
C4	4.244352E+00	-1.513330E-01	-5.806973E-04	6.872250E-02
C5	-1.997374E+00	3.520605E-03	1.457278E-04	2.499604E-02
C6	-1.094366E+00	2.459209E-01	1.603171E-04	-3.620458E-02
C7	1.607498E-02	-1.000226E-03	-5.175277E-06	6.726938E-04
C8	-4.933189E-02	1.376604E-03	7.923169E-06	-2.152718E-04
C9	-1.536594E-02	2.523415E-03	9.954227E-06	-4.418808E-04
C10	6.452344E-03	-1.638759E-03	-3.689335E-07	2.217535E-04

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature



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Test Condition	EN12900 ASERCOM	Performance Test Voltage	220V ~ 50HZ
Return Gas	20°C (68°F) RETURN GAS	Motor Type	CSIR

Performance Information

Evap Temp (°F)	Condensing Temperature (°F)							
		80	90	100	110	120	130	140
5	Btu/h	3330	3060	2780	2500	2210	1920	1650
	Watts	418	433	451	470	489	506	520
	Amps	3.05	3.11	3.17	3.23	3.28	3.34	3.39
	Lb/h	51.4	50.3	48.8	46.9	45.0	43.3	42.0
10	Btu/h	3730	3440	3140	2820	2500	2180	1870
	Watts	435	452	472	494	516	537	554
	Amps	3.10	3.17	3.24	3.31	3.38	3.45	3.51
	Lb/h	57.7	56.7	55.2	53.2	51.2	49.3	47.6
15	Btu/h	4170	3860	3520	3170	2810	2460	2110
	Watts	451	470	492	517	542	566	588
	Amps	3.15	3.23	3.31	3.39	3.47	3.56	3.64
	Lb/h	64.6	63.7	62.1	60.1	57.9	55.7	53.8
20	Btu/h	4650	4300	3930	3540	3150	2750	2350
	Watts	465	486	511	539	567	595	621
	Amps	3.20	3.28	3.37	3.47	3.57	3.67	3.77
	Lb/h	72.2	71.3	69.7	67.6	65.2	62.7	60.4
25	Btu/h	5170	4790	4380	3950	3500	3060	2610
	Watts	479	501	529	559	592	623	653
	Amps	3.24	3.33	3.44	3.55	3.66	3.77	3.89
	Lb/h	80.6	79.7	78.0	75.7	73.1	70.4	67.8
30	Btu/h	5730	5310	4850	4380	3890	3390	2890
	Watts	490	515	545	579	615	650	685
	Amps	3.27	3.38	3.50	3.62	3.75	3.88	4.02
	Lb/h	89.8	88.9	87.1	84.7	81.9	78.9	75.8
35	Btu/h	6340	5870	5370	4840	4300	3740	3180
	Watts	500	527	560	597	636	676	715
	Amps	3.31	3.42	3.55	3.69	3.83	3.99	4.15
	Lb/h	99.9	99.0	97.2	94.6	91.5	88.1	84.7
40	Btu/h	6990	6470	5920	5340	4740	4120	3500
	Watts	508	538	574	614	657	701	744
	Amps	3.33	3.46	3.60	3.76	3.92	4.09	4.27
	Lb/h	111	110	108	105	102	98.4	94.6

45	Btu/h	7700	7120	6510	5870	5210	4530	3840
	Watts	514	546	585	629	676	724	772
	Amps	3.35	3.49	3.65	3.82	4.00	4.19	4.39
	Lb/h	123	122	120	117	114	110	105
50	Btu/h	8450	7820	7140	6440	5710	4970	4210
	Watts	518	553	595	642	693	746	799
	Amps	3.36	3.52	3.69	3.87	4.07	4.28	4.51
	Lb/h	137	136	134	130	126	122	117
55	Btu/h	9250	8560	7820	7050	6250	5430	4600
	Watts	519	557	603	654	709	766	824
	Amps	3.36	3.53	3.72	3.93	4.14	4.37	4.62
	Lb/h	152	150	148	145	140	136	130
60	Btu/h	10100	9350	8550	7700	6830	5940	5020
	Watts	519	560	608	663	722	784	848
	Amps	3.36	3.54	3.75	3.97	4.21	4.46	4.73
	Lb/h	168	166	164	160	156	150	145

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.670242E+03	5.905356E+02	2.489014E+00	1.212548E+01
C2	8.041985E+01	4.302009E+00	1.213655E-02	4.093941E-01
C3	1.273547E+01	-7.709107E+00	6.653090E-03	1.166811E+00
C4	1.316059E+00	-3.779647E-02	-1.375120E-04	1.131869E-02
C5	9.351656E-02	-4.171196E-02	-1.512077E-04	1.492638E-02
C6	-3.596663E-01	8.903105E-02	9.350328E-07	-1.239993E-02
C7	2.756341E-03	-1.715065E-04	-8.873931E-07	1.153453E-04
C8	-8.458829E-03	2.360432E-04	1.358568E-06	-3.691218E-05
C9	-2.634763E-03	4.326844E-04	1.706829E-06	-7.576832E-05
C10	1.106369E-03	-2.809943E-04	-6.326021E-08	3.802357E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature



Tecumseh

Performance Data Sheet

AE4460Z-FZ1C

General Information

Model	AE4460Z-FZ1C	Refrigerant	R-404A
Test Condition	EN12900 ASERCOM	Performance Test Voltage	240V ~ 50HZ
Return Gas	20°C (68°F) RETURN GAS	Motor Type	CSIR

Performance Information

Evap Temp (°C)	Condensing Temperature (°C)				
		30	40	50	60
-15	Watts (Capacity)	929	782	630	484
	Watts (Power)	426	459	493	520
	Amps	3.09	3.19	3.30	3.39
	Lb/h	23.0	21.8	20.2	19.0
-10	Watts (Capacity)	1140	969	785	603
	Watts (Power)	458	498	542	581
	Amps	3.19	3.33	3.47	3.61
	Lb/h	28.4	27.1	25.4	23.8
-6.7	Watts (Capacity)	1300	1110	898	688
	Watts (Power)	477	522	573	620
	Amps	3.25	3.41	3.58	3.77
	Lb/h	32.5	31.2	29.3	27.3
-5	Watts (Capacity)	1390	1180	959	734
	Watts (Power)	486	533	588	640
	Amps	3.28	3.45	3.64	3.84
	Lb/h	34.7	33.4	31.4	29.3
0	Watts (Capacity)	1670	1420	1160	881
	Watts (Power)	509	565	631	697
	Amps	3.35	3.57	3.81	4.07
	Lb/h	42.3	40.8	38.5	35.9
5	Watts (Capacity)	2000	1700	1380	1050
	Watts (Power)	527	592	670	750
	Amps	3.41	3.67	3.97	4.29
	Lb/h	51.2	49.6	46.9	43.8
7.2	Watts (Capacity)	2150	1830	1490	1130
	Watts (Power)	532	602	685	772

	Amps	3.43	3.72	4.03	4.39
	Lb/h	55.6	53.9	51.1	47.7
10	Watts (Capacity)	2370	2010	1630	1230
	Watts (Power)	538	613	704	799
	Amps	3.45	3.76	4.11	4.51
	Lb/h	61.8	59.9	56.8	53.1
15	Watts (Capacity)	2780	2370	1920	1450
	Watts (Power)	542	628	732	843
	Amps	3.47	3.83	4.24	4.71
	Lb/h	74.2	72.1	68.5	64.1

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.194923E+03	4.983485E+02	2.864881E+00	3.600585E+01
C2	8.233974E+01	1.706272E+00	5.420486E-04	1.491295E+00
C3	-9.469188E+00	-5.546527E+00	1.182043E-02	5.875815E-01
C4	1.243897E+00	-1.513313E-01	-5.806968E-04	3.143006E-02
C5	-5.853743E-01	3.515884E-03	1.457332E-04	1.07599E-02
C6	-3.207225E-01	2.459261E-01	1.603099E-04	-1.542634E-02
C7	4.711113E-03	-1.000215E-03	-5.175240E-06	3.023098E-04
C8	-1.445776E-02	1.376570E-03	7.923174E-06	-1.063585E-04
C9	-4.503293E-03	2.523465E-03	9.954172E-06	-1.949154E-04
C10	1.890962E-03	-1.638796E-03	-3.688847E-07	9.346084E-05

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

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